

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A method of processing graphics images in a display engine for display, the method comprising:

in a window controller, obtaining data that describes windows in which the graphics images are displayed;

sorting the data using the window controller in accordance with respective depths of the windows;

transmitting header packets from the window controller to the display engine, each header packet containing at least a portion of the data, said portion describing at least one of the windows;

transferring the graphics images from a memory to the display engine responsive to said header packets; and

blending the graphics images using alpha values associated with the graphics images.

2. (New) The method of claim 1, wherein the data includes a plurality of data portions, each data portion describing a corresponding window, and sorting the data comprises sorting the data portions in an order from an upper most window to a lower most window.

3. (New) The method of claim 1, wherein the data includes a plurality of data portions, each data portion describing a

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corresponding window, and sorting the data comprises sorting the data portions in an order from a left most window to a right most window.

4. (New) The method of claim 1, wherein the data includes a plurality of data portions, each data portion describing a corresponding window, and sorting the data comprises sorting the data portions in an order from a back most window to a front most window.

5. (New) The method of claim 1, wherein sorting the data comprises sorting the data based on which windows have already been processed on a current display line.

6. (New) The method of claim 5, wherein each window has an associated depth number which signifies its respective depth in comparison to other windows.

7. (New) The method of claim 6, wherein the depth number of the window which has been processed on the current display line is modified to indicate that it has been processed on the current display line.

8. (New) The method of claim 7, wherein the depth number of the window is modified by adding a predetermined value.

9. (New) The method of claim 1, wherein transferring the graphics images comprises transferring the graphics images from the memory to the display engine using direct memory access (DMA).

10. (New) The method of claim 1, wherein the display engine comprises a graphics converter for receiving the graphics images, wherein the graphics converter is capable of placing the graphics images into a common format.

11. (New) A system for processing graphics images, comprising:

a window controller for obtaining data that describes windows in which the graphics images are displayed, and for sorting the data in accordance with respective depths of the windows;

a display engine for blending the graphics images using alpha values associated with the graphics images; and

a memory for storing the graphics images,

wherein the window controller transmits header packets to the display engine, each header packet containing at least a portion of the data, said portion describing at least one of the windows, and

wherein the graphics images are transferred from the memory to the display engine responsive to said header packets.

12. (New) The system of claim 11, wherein the data includes a plurality of data portions, each data portion describing a corresponding window, and the window controller sorts the data portions in an order from an upper most window to a lower most window.

13. (New) The system of claim 11, wherein the data includes a plurality of data portions, each data portion

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describing a corresponding window, and the window controller sorts the data portions in an order from a left most window to a right most window.

14. (New) The system of claim 11, wherein the data includes a plurality of data portions, each data portion describing a corresponding window, and the window controller sorts the data portions in an order from a back most window to a front most window.

15. (New) The system of claim 11, wherein the window controller sorts the data based on which windows have already been processed on a current display line.

16. (New) The system of claim 15, wherein each window has an associated depth number which signifies its respective depth in comparison to other windows.

17. (New) The system of claim 16, wherein the depth number of the window which has been processed on the current display line is modified to indicate that it has been processed on the current display line.

18. (New) The system of claim 17, wherein the depth number of the window is modified by adding a predetermined value.

19. (New) The system of claim 11, further comprising a direct memory access (DMA) module for transferring the graphics images from the memory to the display engine.

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20. (New) The system of claim 11, wherein the display engine comprises a graphics converter for receiving the graphics images, wherein the graphics converter is capable of placing the graphics images into a common format.